## CREATING AND MANAGING STRUCTURED DATA IN AN ELECTRONIC SPREADSHEET

## **Abstract**

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An electronic spreadsheet is provided for automatically creating, expanding, and validating lists of cells, without manual intervention by a user. A list is created in the electronic spreadsheet by receiving a user request for selecting a cell range in the electronic spreadsheet, identifying a list range for the selected cell range in the electronic spreadsheet, determining a header row for the list range, and generating a border for surrounding the list range. A user total row for calculating one or more aggregation functions for data stored in the selected cell range may also be identified. A list is expanded by determining that one or more cells are adjacent to the list and automatically expanding the list to include the new cells. A list is validated by determining a data type of data entered into the list and comparing the data type of the data entered into the list to a list data type. If, as a result of the comparison, the data type of the data entered into the list does not match the list data type, then the data type of the data entered into the list is invalid. If the data type of the data entered into the list based on the data type is determined.